

CellPipe® 20H/20H-4 Series



This economical ATM-based IP CPE enables symmetrical high-speed data transport for small business and SOHO customers, which reduces upload times and helps enhance business productivity. The CellPipe® 20H enables data rates up to 2.3 Mbps over a single copper pair—while the CellPipe® 20H-4 offers rates up to 4.6 Mbps over a double copper pair. By providing these rates in both directions, the CellPipe® 20H and 20H-4 can support today's most sophisticated broadband services. Yet they're easy to configure remotely on customer premises.

Applications

- **High-performance data and video services**, including intranets, extranets, videoconferencing, Web hosting and fast Internet access
- **Small businesses, SOHOs and other in-building installations** that want high-speed symmetrical transport
- **Quality of Service capabilities**—Maintains reliable performance for critical applications with ATM QoS, including UBR, CBR and VBR-nrt.
- **Simple remote configuration**—Streamlines service start up, using the console port, a telnet session or SNMP.
- **Minimize operating expenses**—Easy configuration and remote management capabilities keep your operating costs down.
- **Reliable performance**—ATM QoS capabilities help you maintain the performance levels your subscribers demand.

Features

- **Symmetrical high-speed data rates**—Offers high-speed transport in both directions, using SHDSL connections:
 - CellPipe® 20H enables data rates up to 2.3 Mbps over a single copper pair.
 - CellPipe® 20H-4 enables data rates up to 4.6 Mbps over a double copper pair.
- **Easy LAN connectivity**—Provides four 10/100BaseT LAN interfaces that allow direct connection, along with auto-negotiation of the connected Ethernet type.

Benefits

- **Enhanced revenue**—Expand your service offerings and attract new subscribers by offering higher symmetrical connections over standard copper lines.
- **Application flexibility**—Enable business customers to increase efficiency with high-speed connections that support a full spectrum of applications—including faster access to the Internet and intranets, videoconferencing, streaming multimedia, Web hosting, network gaming and more.

- **Customer retention**—Keep your customers satisfied by providing the value-added services they're looking for, supported by cost-effective high-speed symmetrical transport.



Technical Specifications *(continued)*

| Description | Specifications |
|------------------------------|---|
| 1. Modes | IP router, IP bridge, DNS relay |
| 2. Ports | |
| SHDSL WAN (RJ-11) | SHDSL with PAM16 line coding (ITU-G.991.2 Annex A and Annex B) supports wedding current range from 0.3mA to 3mA |
| Ethernet LAN (4 x RJ-45) | 4 x Ethernet IEEE 802.3 (switch), 10/100Base-T auto sensing |
| 3. Firewall | Masquerading (NAT/PAT) compliant to RFC 1631; DNS forwarding. |
| 4. Quality of Service | ATM QoS support UBR, CBR, VBR-nrt VPI Range (0-4095) and VCI range (1-65535) Up to 8 PVCs in bridge and 5 PVCs in routing mode OAM F4/F5 loop back support |
| 5. LAN protocols | |
| IP: | IP, ICMP, UDP, TCP, TFTP, RIP-1, RIP-2, DHCP, DNS, SNMP, HTTP, HTTPS |
| 6. WAN protocols | PPPoE (RFC2516), PPPoA (RFC2364) (PAP and CHAP supported), and IP over ATM over SHDSL (RFC 2025/RFC1577), Multiprotocol over ATM (RFC2684/RFC 1483), IPoA (RFC 2225/RFC1577), PPPoE (RFC2516) |
| 7. Transmission rates | |
| LAN (maximum) | 100 Mbps, full duplex operation |
| WAN (maximum) | CellPipe® 20H 144 kbps up to 2.3 Mbps rate adaptive in both directions CellPipe® 20H-4 144 kbps up to 4.6 Mbps rate adaptive in both directions |
| 8. Management | |
| Outband | Command-line interface, serial V.24 |
| Inband | Telnet or SNMP management via SNMP V1, WAN or LAN access TFTP for firmware upgrade |
| 9. Hardware | |
| Power adapter | 12 V/DC, external power adapter |
| Environment | Temperature 5–45 °C; humidity 0–95 %; non-condensing |
| Housing | 200 x 169 x 40 mm (B x H x T), robust plastic case, ports on the back, prepared for wall mounting |
| Approvals | EMC: CE EN300386 & FCC Part 15 class B Safety: EN60950 & CB |

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